

DENTURE GUIDE® METHOD

USER MANUAL 2D Digital Preview and Maestro 3D Dental Studio



Scan the QR Code and watch the **tutorial videos** on the Denture Guide[®] Method.



THE RUTHINIUM DIGITAL WORKFLOW!

From Clinical Information Sharing to Final dentures.

Ruthinium Digital workflow has the goal of improving efficiency without disrupting traditional dentist workflow. We recognize the importance of preserving established procedures, but at the same time we want to offer concrete support to optimize the entire process.

The key step in our proposal is the acquisition of data using scanners instead of physical models. This approach allows dentists to overcome the challenge of sending physical data to laboratories by replacing this practice with digital transmission. In this way, we simplify the workflow and reduce the inconvenience of physically transporting materials.

The transition to digital data collection represents a significant advance in modern dentistry, allowing practitioners to focus on their medical skills without having to worry about logistics. With our approach, we aim to facilitate this transition and offer dentists a more efficient and convenient way to manage data and collaborate with laboratories.







BITERIMS REFERENCE

The clinician performs the upper wax rim incision through two reference points using the Denture Guide calibrator.





PHOTOGRAPHIC PROTOCOL

Patient seated with straight back and with support behind the back of the head Vertical camera or new generation smartphone Aesthetic level parallel to the horizon Focus on teeth/center of face





1° IMPORTING DATA

Photo with smile and with retractors





2° CALIBRATION

Process of turning photo pixels into actual measurements and to correctly position the midline





3° FACE ANALYSIS





3° FACE ANALYSIS





3° FACE ANALYSIS





3° FACE ANALYSIS





3° FACE ANALYSIS

On the left menu are the following software functions useful as a proper face analysis:

Face measurement

Place the **RED** rectangle in the following way: **The upper side** should correspond to the hairline, (with bald patient it should correspond to the first wrinkle of the forehead).**The lower side** should correspond to the base of the chin. **The laterals** must correspond to the end of the cheekbones.

Through these parameters the software will calculate 1/16th of the area to recommend the correct size of the upper central incisors





3° FACE ANALYSIS





3° FACE ANALYSIS





4° ENDO-ORAL AREA CUTOUT Cropping the photo



Following the contour of the lips, a cutout of the endo-oral area is created with a series of white dots.

With **ORANGE** dots you can modify the curves and refine the cutout.

5° PICTURE ALIGNMENT

Frontal Face with Intraoral Frontal

You have to align the rims through the two reference points that were incised by the clinician.

6° TEETH SETUP

The software opens the library of Ruthinium Acry Smart and Acry Plus commercial teeth indicating which one is most correct to use based on the information provided previously. The choice of tooth is not constrained, it can be changed manually based on an individual choice criterion.

6° RECAP TEETH SETUP

The software will indicate the correct articulation

7° TEETH SETUP

The software will automatically place images of the chosen teeth within the picture going to create an aesthetic assembly.

NB: The teeth are not in 3D STL format but have been photographed one by one and inserted within the software to create an aesthetic preview. Realistic fitting will have to be done with the 3D Denture Guide software.

8° EXPORT OUTLINES

The outlines will later serve on the Denture Guide software as a reference in photographic aesthetic previsualization

HOW TO DO? From the TEETH POSITIONING section, click on "**Show teeth outlines**". Red outlines will appear.

Export the file by clicking on the menu in the upper right corner **"Export current page"**.

	Saturation	
	Outlines width	
	Show markers	
1	Show vertical reference lines ✓ Show teeth outlines	

9° AESTHETIC PREVISUALIZATION

Possibility to generate the project report in PDF format within will be present the complete analysis of the patient.

HOW TO DO? Click on the menu in the upper right-hand corner, "**Generate report**"

1° IMPORTING STL FILES TO THE SOFTWARE

2° OCCLUSAL PLANE SETTING

2° OCCLUSAL PLANE SETTING

3D DENTURE GUIDE

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GUIDEM3D STUDIO - DENTURE GUIDE MODULEDigital setup software

3° FILE ALIGNMENT WITH THE PICTURE

Through the two reference points incised by the clinician on the upper rims through the use of the calibrator.

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4° CROPPING PHOTO ENDO-ORAL AREA

Double-clicking the mouse on the model to add control points.

5° UPPER AND LOWER GENGIVAL CREST DESIGN

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6° TEETH SETUP

6° TOOLS AVAILABLE FOR TOOTH ASSEMBLY

6° TOOLS AVAILABLE FOR TOOTH ASSEMBLY

M3D STUDIO - DENTURE GUIDE MODULE

Digital setup software

NB: important to place the blue arrow in the occlusal part of the tooth to allow the software to correctly place the template

8° REALIZATION THROUGH TEMPLATE POINTS (GUIDE THAT ALLOWS TOOTH PLACEMENT)

nalysis and measures Virtual Setup Bite Designer Smile Creator 3D Denture Guide | Template The most suitable thickness can be chosen. 1 **Recommended thickness: 0.90** 5 A Thickness 1.30 -Can choose the most Offset from model 0.15 1.00 suitable offset + 0 Drill radius 0.00 Remove undercuts Helt Æ **↑** Ctrĺ To define the cutting line. Press SHIFT key, and click or double-click or drag with the mouse over the model to add the control points of the line. The blue arrow indicates the portion of the model that will be used. Make sure that the point is within the Press CTRL key and drag with the mouse to move the control point. DD Next X Cancel 💿 🛜 🤃 🗩 🗩 💿 🖰 Left Button: Rotate | Wheel: Zoom | Right Button: Pan

WITH THE USE OF **ACRY SMART** AND **ACRY PLUS** WE RECOMMEND THE FOLLOWING STEPS:

> BASE MODELING AND EXPORTING STL FILES

10° BASE MODELLING UP TO THE NECK OF THE TOOTH TO AVOID UNDERCUTS.

Joint ControlM3D STUDIO - DENTURE GUIDE MODULEDigital setup software

10° BASE MODELING (SMOOTHING THE SURFACE)

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11° FILE EXPORT

11° EXPORT OF THE BASE WITH A HOLE. USEFUL WHEN THE TRIPOD TOUCHES THE TOOTH OR TO DRILL THE BASE NEAR THE NECK

WITH THE USE OF ACRY SMART DIGITAL WE RECOMMEND THE FOLLOWING STEPS:

> GUM MODELING AND EXPORTING STL FILES

10° GUM / GINGIVA DESIGN

11° GUM / GINGIVA DESIGN

11° GUM / GINGIVA DESIGN

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12° FILE EXPORT

12° BASE EXPORT WITH TOOTH LODGING

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